

CLAIMS

1. (Currently amended) A system for charging a remote device rechargeable power source comprising:

a remote device including the remote device rechargeable power source and a remote device transceiver;

a contactless power supply having a primary and a CPS transceiver; and

an adapter removably connectable to the remote device and including a secondary, a power regulator to supply power to the remote device rechargeable power source, an adapter rechargeable power source for powering the adapter, a first adapter transceiver to establish a first two-way communication link with the remote device transceiver, and a second adapter transceiver to establish a second two-way communication link with the CPS transceiver, the first two-way communication link and the second two-way communication link providing a serial two-way communication path between the remote device and the contactless power supply.

2. (Canceled)

3. (Previously presented) The system of claim 1 further comprising a controller to control the power regulator.

4. (Canceled)

5. (Previously presented) The system of claim 3 where the controller includes a variable impedance element having an impedance.

6. (Previously presented) The system of claim 5 where the controller is capable of changing the impedance of the variable impedance element.

7. (Previously presented) The system of claim 6 where the variable impedance element is a variable inductor.

8. (Previously presented) The system of claim 7 where the controller varies the impedance of the variable inductor in response to instructions from the contactless power supply through the second communication link.

9. through 11. (Canceled)

12. (Previously presented) The system of claim 8 where the adapter receives charging requirements from the remote device through the first communication link.

13. (Currently amended) A remote device charging system comprising:

a remote device having a remote device rechargeable power source;

a contactless power supply including a primary;

an adapter including a secondary and an adapter rechargeable power source, the adapter being removably connected to the remote device;

a first two-way communication link between the remote device and the adapter;
and

a second two-way communication link between the adapter and the contactless power supply, the first two-way communication link and the second two-way communication link providing a serial two-way communication path between the remote device and the contactless power supply.

14. through 22. (Canceled)

23. (Previously presented) A method of connecting a remote device to a network through a contactless power supply comprising:

creating a first communication link between the remote device and an adapter;

creating a second communication link between the adapter and the contactless power supply;

creating a third communication link between the contactless power supply and a computer; and

creating a fourth communication link between the computer and the network, whereby the remote device can communicate with the network through the first, second, third, and fourth communication links.

24. (Previously presented) The method of claim 50 wherein the information includes charging information.

25. through 46. (Canceled)

47. (Previously presented) The system of claim 13 further comprising:

a computer; and

a third two-way communication link between the contactless power supply and the computer.

48. (Previously presented) The system of claim 47 wherein each of the first and second communication links includes two transceivers.

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49. (Previously presented) The system of claim 13 wherein each of the communication links includes two transceivers.

50. (Previously presented) The method of claim 23 further comprising:

providing to the contactless power supply through the first and second communication links information about a remote device rechargeable power source within the remote device; and

supplying power to the remote device rechargeable power source in response to the information.

51. (Previously presented) The method of claim 23 wherein each of the first and second creating steps includes using two transceivers.